CLAIM AMENDMENTS

- 1. (Currently Amended) A semiconductor device comprising a vertical MOSFET that uses including SiC, wherein a base region of the vertical MOSFET has a tapered shape.
- 2. (Currently Amended) The semiconductor device according to claim 1, wherein the taper angle of the base region of the vertical MOSFET set to an angle of is within a range of 30° or more and to 60° or less.
- 3. (Currently Amended) A method of manufacturing a semiconductor-device, wherein in manufacture of a vertical MOSFET that uses including SiC, the method comprising forming a source region and a base region are formed by ion implantation using the same one mask.
- 4. (Currently Amended) The method of manufacturing a semiconductor device according to claim 3, wherein the same mask has a tapered shape that is tapered at an angle of in a range from 30° or more and to 60° or less, and is formed from a material that equals matches SiC in terms of range in of ion implantation.
- 5. (Currently Amended) The method of manufacturing a semiconductor device according to claim 3, wherein the same mask has a tapered shape that is tapered at an angle of in a range from 20° or more and to 45° or less, and is formed from made of SiO₂.
- 6. (Currently Amended) The method of manufacturing a semiconductor device according to claim 3, wherein, in the ion implantation, ions are implanted perpendicular to and obliquely with respect to a substrate.
- 7. (Currently Amended) The method of manufacturing a semiconductor device according to claim 6, wherein the same mask is formed from a material that is longer in ion implantation range than SiC in terms of range in ion implantation.
- 8. (Currently Amended) The method of manufacturing a semiconductor device according to claim 6, wherein the same mask is formed-from a material that equals SiC in terms of range in of ion implantation, and the ion implantation angle is set to no more than 70° or-less.

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- 9. (Currently Amended) The method of manufacturing a semiconductor device according to claim 6, wherein the same mask is formed from SiO₂, and wherein the ion implantation angle is set to no larger than 75° or less.
- 10. (Currently Amended) The method of manufacturing a semiconductor device according to claim 3, wherein, in the ion implantation, ions are implanted obliquely with respect to a substrate, and the ion implantation angle with respect to the substrate is smaller in forming the base region than in forming the source region of the vertical MOSFET.
- 11. (Currently Amended) The method of manufacturing a semiconductor device according to claim 6, wherein including implanting ions are implanted using the same mask having, wherein the mask has a tapered shape.
- 12. (Currently Amended) The method of-manufacturing a semiconductor device according to claim 10, wherein including implanting ions are implanted using the same mask having, wherein the mask has a tapered shape.